PubMed, Related Sequences

♦ for Protein Go Clear Limits Preview/Index History Clipboard GenPept Save Text Add to Clipboard P14174 . MACROPHAGE MIGRATI...[gi:1170955] LOCUS MIF HUMAN 115 aa PRI 01-NOV-1997 DEFINITION MACROPHAGE MIGRATION INHIBITORY FACTOR (MIF) (GLYCOSYLATION-INHIBITING FACTOR) (GIF). ACCESSION P14174 g1170955 PID VERSION P14174 GI:1170955 DBSOURCE swissprot: locus MIF_HUMAN, accession P14174; class: standard. created: Jan 1, 1990. sequence updated: Nov 1, 1995. annotation updated: Nov 1, 1997. xrefs: gi: <u>312333</u>, gi: <u>312334</u>, gi: <u>188555</u>, gi: <u>188556</u>, gi: <u>187180</u>, gi: 187181, gi: 402701, gi: 402702, gi: 307284, gi: 307285, gi: 106943, gi: 423077 xrefs (non-sequence databases): SWISS-2DPAGE P14174, MIM 153620, PFAM PF01187, PROSITE PS01158 KEYWORDS Macrophage; Inflammatory response; Cytokine; 3D-structure. SOURCE ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE 1 (residues 1 to 115) AUTHORS Weiser, W.Y., Temple, P.A., Witek-Giannotti, J.S., Remold, H.G., Clark, S.C. and David, J.R. TITLE Molecular cloning of a cDNA encoding a human macrophage migration inhibitory factor Proc. Natl. Acad. Sci. U.S.A. 86 (19), 7522-7526 (1989) JOURNAL 90017510 MEDI.INE REMARK SEQUENCE FROM N.A. REFERENCE 2 (residues 1 to 115) **AUTHORS** Paralkar, V. and Wistow, G. Cloning the human gene for macrophage migration inhibitory factor TITLE Genomics 19 (1), 48-51 (1994) JOURNAL 94245178 MEDLINE REMARK SEQUENCE FROM N.A. REFERENCE (residues 1 to 115) Mikayama,T., Nakano,T., Gomi,H., Nakagawa,Y., Liu,Y.C., Sato,M., Iwamatsu,A., Ishii,Y., Weiser,W.Y. and Ishizaka,K. AUTHORS Molecular cloning and functional expression of a cDNA encoding TITLE glycosylation-inhibiting factor JOURNAL Proc. Natl. Acad. Sci. U.S.A. 90 (21), 10056-10060 (1993) 94052102 MEDI-INE REMARK SEQUENCE FROM N.A. REFERENCE (residues 1 to 115)

AUTHORS Wistow, G.J., Shaughnessy, M.P., Lee, D.C., Hodin, J. and Zelenka, P.S. TITLE

A macrophage migration inhibitory factor is expressed in the

differentiating cells of the eye lens

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 90 (4), 1272-1275 (1993)

MEDLINE 93165679

REMARK SEQUENCE OF 9-114 FROM N.A.

TISSUE=LENS

REFERENCE (residues 1 to 115)

HOCHSTRASSER, D.F., FRUTIGER, S., PAQUET, N., BAIROCH, A., RAVIER, F., AUTHORS

PASQUALI,C., SANCHEZ,J.-C., TISSOT,J.-D., BJELLQVIST,B., VARGAS,R.,

APPEL, R.D. and HUGHES, G.J.

Human liver protein map: a reference database established by microsequencing and gel comparison

JOURNAL

Electrophoresis 13 (12), 992-1001 (1992)

MEDLINE 93162045 REMARK SEQUENCE OF 1-10.

TITLE

TISSUE=LIVER

REFERENCE 6 (residues 1 to 115)

AUTHORS Zeng, F.Y., Weiser, W.Y., Kratzin, H., Stahl, B., Karas, M. and

Gabius, H.J.

TITLE The major binding protein of the interferon antagonist sarcolectin

in human placenta is a macrophage migration inhibitory factor

JOURNAL. Arch. Biochem. Biophys. 303 (1), 74-80 (1993)

MEDLINE 93256574

REMARK SEQUENCE OF 2-23.

REFERENCE (residues 1 to 115)

AUTHORS Sugimoto, H., Suzuki, M., Nakagawa, A., Tanaka, I. and Nishihira, J.

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rophage migration inhibitory factor from
            Crystal structure of
            human lymphocyte at 2.1 A resolution
  JOURNAL
            FEBS Lett. 389 (2), 145-148 (1996)
  MEDLINE
            96338096
  REMARK
            X-RAY CRYSTALLOGRAPHY (2.1 ANGSTROMS).
REFERENCE
              (residues 1 to 115)
            Kato, Y., Muto, T., Tomura, T., Tsumura, H., Watarai, H., Mikayama, T.,
  AUTHORS
            Ishizaka, K. and Kuroki, R.
  TITLE
            The crystal structure of human glycosylation-inhibiting factor is a
            trimeric barrel with three 6-stranded beta-sheets
  JOURNAL
            Proc. Natl. Acad. Sci. U.S.A. 93 (7), 3007-3010 (1996)
  MEDLINE
            96181524
  REMARK
            X-RAY CRYSTALLOGRAPHY (1.9 ANGSTROMS).
REFERENCE
            9 (residues 1 to 115)
  AUTHORS
            Sun, H.W., Bernhagen, J., Bucala, R. and Lolis, E.
  TITLE
            Crystal structure at 2.6-A resolution of human macrophage migration
            inhibitory factor
  JOURNAL
            Proc. Natl. Acad. Sci. U.S.A. 93 (11), 5191-5196 (1996)
 MEDLINE
            96224258
  REMARK
            X-RAY CRYSTALLOGRAPHY (2.6 ANGSTROMS).
COMMENT
            On Jan 29, 1996 this sequence version replaced gi: 127090.
            This SWISS-PROT entry is copyright. It is produced through a
            collaboration between the Swiss Institute of Bioinformatics and
            the EMBL outstation - the European Bioinformatics Institute.
            The original entry is available from http://www.expasy.ch/sprot
            and http://www.ebi.ac.uk/sprot
            [FUNCTION] THE EXPRESSION OF MIF AT SITES OF INFLAMMATION SUGGEST A
            ROLE FOR THE MEDIATOR IN REGULATING THE FUNCTION OF MACROPHAGE IN
            HOST DEFENSE.
            [SUBUNIT] HOMOTRIMER.
            [DISEASE] MIF ACTIVITY HAS BEEN DETECTED IN LEUKOCYTE CULTURE
            SUPERNATANTS OF MICE DURING ALLOGRAFT REJECTION, IN THE SYNOVIA OF
            PATIENTS WITH RHEUMATOID POLYARTHRITIS, AND IN A VARIETY OF CHRONIC
            INFLAMMATORY LOCI.
            [SIMILARITY] BELONGS TO THE MIF FAMILY.
FEATURES
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                     /db_xref="taxon:9606"
                     1..115
    Protein
                     1..115
                     /product="MACROPHAGE MIGRATION INHIBITORY FACTOR"
    Region
                     106
                     /region_name="Conflict"
                     /note="N -> S (IN REF. 1)."
ORIGIN
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January 10, 2000.

TITLE

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